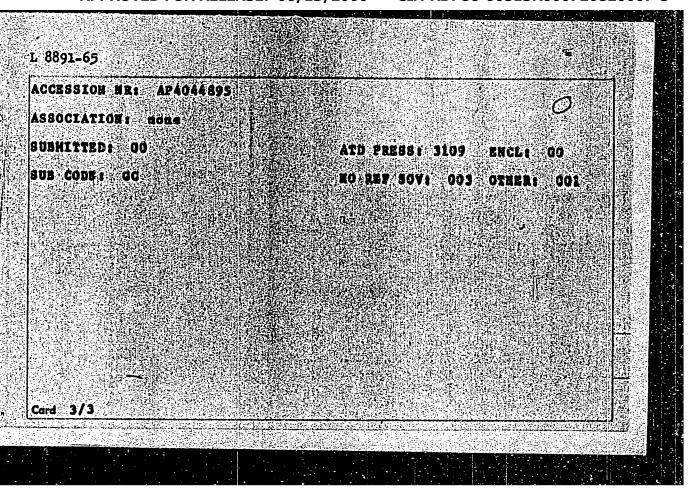


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 $\frac{L\ 19625-65}{\text{IJP(c)/AFWL/RAEM(a)/SSD(c)/ASD(a)-5/AEDC(b)/AFMD(c)/RAEM(c)/SSD/RAEM(1)/}$ JD/WW/WH ACCESSION NR. AP5000157 S/0032/64/030/012/1459/1463 AUTHORS: Karpel', N. C.; Shaparova, V. V. TITLE: Persament plot method for the spectral determination of impurities in gallium arsenide ~ SOURCE: Zavodskaya laboratorija, v. 30, no. 12, 1964, 1459-1463 TOPIC TAGS: spectroscopy, impurity content, gallium arsenide, spectrometry/ ISP 28 spectrograph, SP 2 spectral plates ABSTRACT: The method presented here makes use of a permanent graph for correcting spectral measurements without photographing the standard. The use of such a graph, constructed beforehand from a large number of parallel determinations, increases the reliability of the results. In this work, the synthetic standards are prepared from the material to be analysed and graphite powder with specified quantities of the impurities in the form of oxides of the elements. The compositions of the specimens and of the standards are judged from the speed and the sequence of their arrival at the arc. The spectrum of the arc is photographed for each quantity. For further resolution, the film is measured in a photomicrometer. From the data obtained, the permanent plots (see Fig. 1 on the Enclosure) were established for Card 1/4

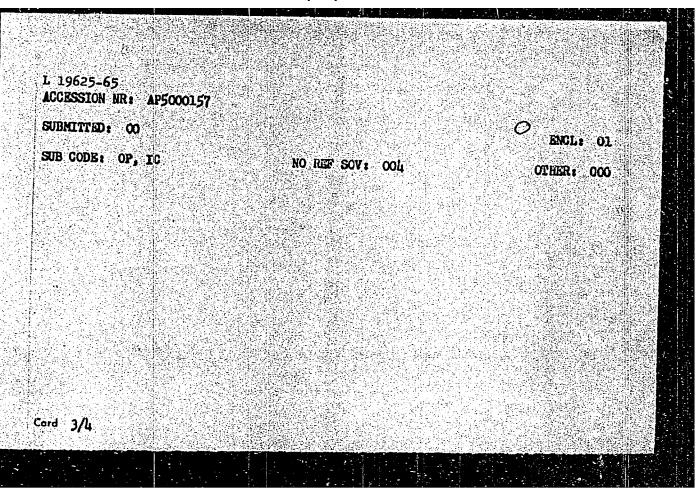
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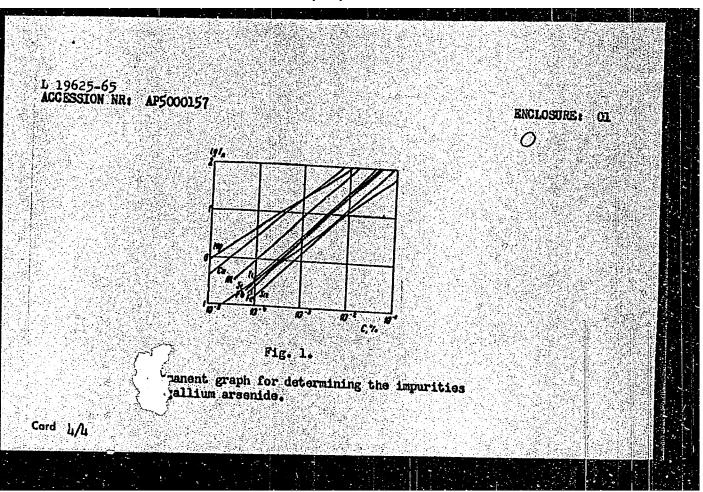
L 19625-65 ACCESSION NR: AP5000157

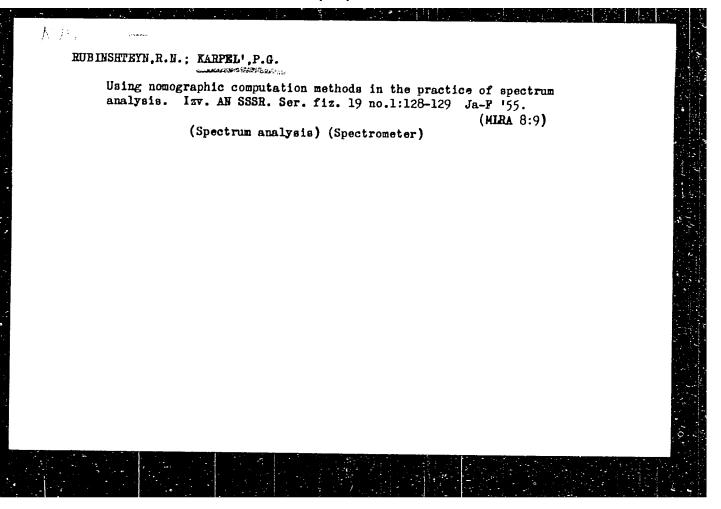
eight elements. A davice using a transparency was developed to facilitate the calculations. The necessary data is obtained by moving the transparency (with the previously imprinted theoretical curves combined with the experimental curves) in two perpendicular directions. Three gallium lines, I λ = 3058.7 Å, 11 λ = 2987.58 \mathring{A}_{j} and III λ = 3015.5 \mathring{A}_{j} were used to make the plate corrections as follows: the plate contrast γ was calculated from the ratio $\log I_{\rm I}/I_{\rm II}$ = 0.27 and from the difference of the darkening in the straight region of the characteristic curve; the variable q determining the nonlinearity of the characteristic curve was found from log I_{1}/I_{111} = 0.83. To transfer from the plate of the specimens to the reference plate of the permanent plot, the λ = 2907.50 Å line of gallium was used as a "control line." With a constant arc current; exposure, and depth of the carbon electrode crater, the control line was used for making small changes in the focusing. Two momograms were constructed to facilitate the calculations. The details of a specimen analysis using the permanent plot method are described and the measurements are compared with those obtained by using the repeatedly photographed standard method. The impurity sensitivity of the new method was as follows: Ti, Pb, Sn, Fe, Al < 10-1g; Si, Mg, Mn, Cu < 1.10-5g. Orig. art. has; 1 table

ASSOCIATION: none

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720820007-5



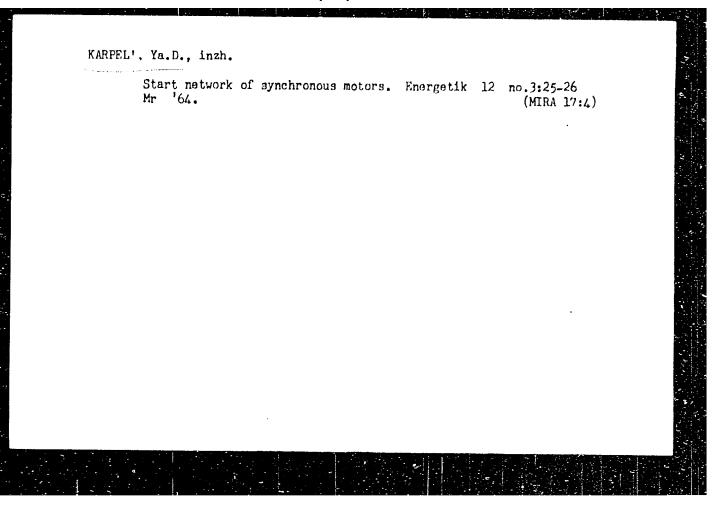




Was of synchronous motors in the petroleum refining industry and in petroleum chemistry. From. energ. 15 no.9:23-25 S 160.

(Petroleum industry--Electric equipment)

(Electric motors, Synchronous)



PRASLICKA, M.: KAPPEL, Z.; MRAZ, L.

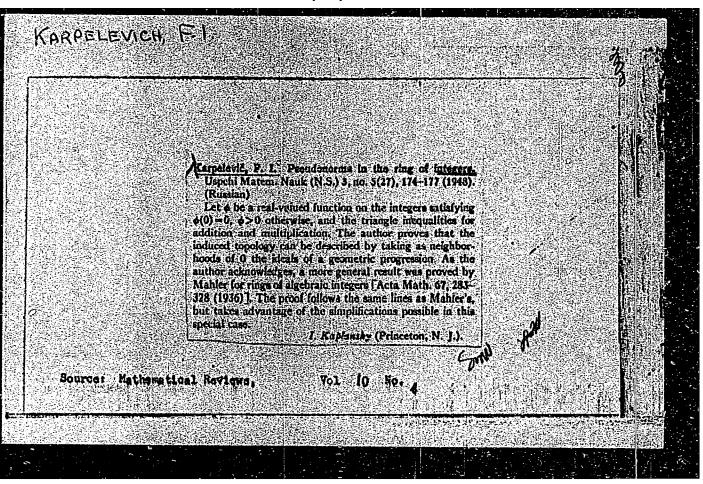
Effect of controlled hypothermia on survival and peripheral blood picture in mice and rats following irradiation. Cesk. fysiol. 7 no.3:284-285 May 58..

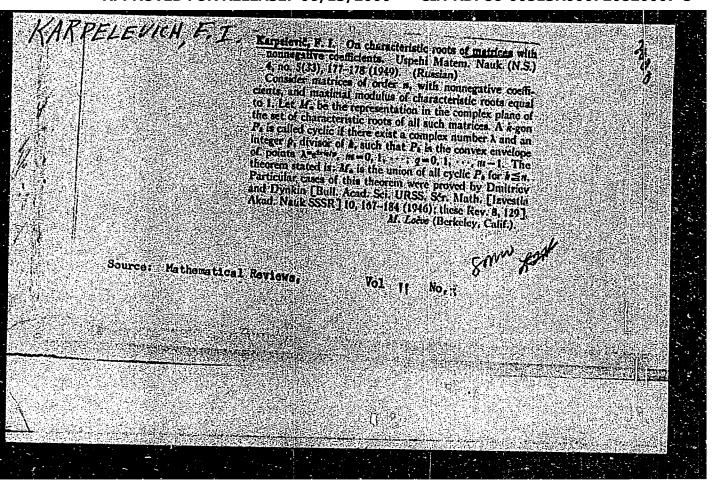
1. Ustav biologie lek. fak. v Kosiciach a Ustav biofyziky CSAV. Brno. (BLOOD CELIS.

count, eff. of hypothermia in irradiated animals (Cx)) (RADIATIONS, eff.

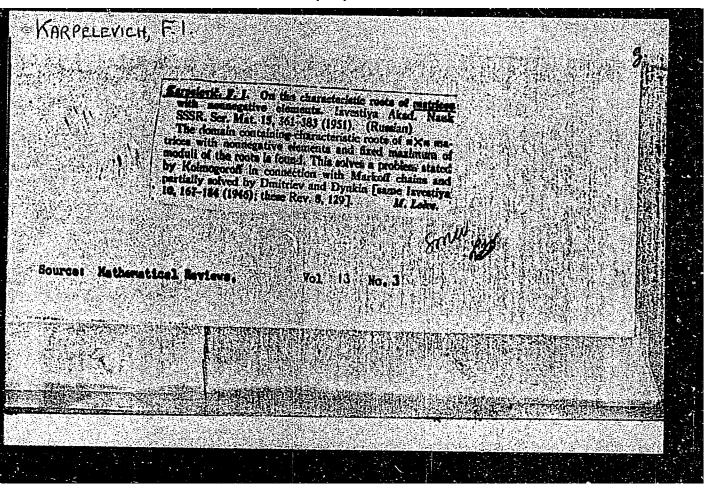
eff. of hypothermia on survival & blood count (Cz)) (HYPOTHERMYA, eff.

on blood count & survival in irradiated animals (Cz))





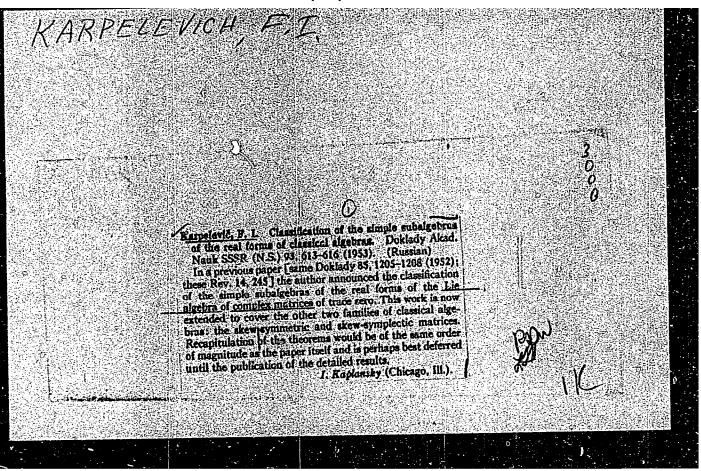
"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720820007-5



	Karpelevič, F. I. On nonsemisimple maximal subalgebra of samisimple Lie algebras. Doklady Akad. Nauk SSSI (N.S.) 76, 775-778 (1951). (Russian) Let G be a semisimple Lie algebra. 2 and II systems o roots and simple roots respectively. To a maximal nonsemisimple autolgebra G there is attached a subsystem 2, of 2 The author first shows that 2; \(\mathcal{E}(-2)\) = 2. In the remaining investigation, the hypothesis of maximality is replaced by this weaker condition. After an inner automorphism, \(\mathcal{E}_1\) can be described as the set of all roots having nonnegative coefficients on a certain subset II. of II. The case of maximality is replaced by	
Source: Mathematical	mality is that where II has just one element. I. Kaplansky (Chicago, III.). Raviews, Vol. [7. No. 8]	SMY AND TO SEE
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		$\frac{1}{2} \left(\frac{1}{2} \right) $		
KARPELEVICH F. I.			2700	
238190	imaginaries. Algebra R is called the real form of algebra $\sqrt{R}J$, following E. Cartan. Established theorems relating these two algebras. Submitted by Acad A. N. Kolmogorov 1 Jul 52.	Considers the vectors $x\neq y$ (x , y in real Lie algebra R) and associates with each real algebra R a complex Lie algebra designated by $f(x)$, which is defined in a real manner by the familiar commutative operation (238790)	"Classification of the Simple Subgroups of Real Form of a Group of Complex Unimodular Matrices," F. I. Karpelevich, Moscow State U "DAN SSSR" Vol 85, No 6, pp 1205-8	USSR/Mathematics - Modern Algebra 21 Aug 52 Matrices
		or c m		

KARPELEVICH, F. I.	Karpelevič, F. I. Surfaces of transitivity of a semisimple subgroup of the group of motions of a symmetric space. Doklady Akad. Nauk SSSR (N.S.) 93, 401-404 (1953). (Russian) This work is based on the well known results of E. Cartan on semi-simple groups. If \mathfrak{M} is a symmetric Riemann space of negative curvature, its group of motions \mathfrak{G} is semi-simple and the stationary subgroup \mathfrak{T} is a maximal compact subgroup of \mathfrak{G} . Let G be the Lie algebra of \mathfrak{G} and $\varphi(g, h)$, $g, h \in G$, the Cartan invariant bilinear form. Let H be a subspace of G . The set of elements X of G such that $\varphi(x, h) = 0$ for all $h \in H$ is called the orthogonal complement of H (in G). Let \mathfrak{G} be a semi-simple subgroup of \mathfrak{G} and \mathfrak{T} a maximal compact subgroup of \mathfrak{G} . Let G and G a maximal compact subgroup of G . Let G and G a maximal compact subgroup of G . Let G and G a maximal compact subgroup of G such that G and G and G and G are canonically imbedded in G if there exists a maximal compact subalgebra G of G such that G and G and G and G and G are the author proves are as follows. Let G be canonically imbedded in G and let G and G and G is the surface of transitivity of G , containing G , then G is totally geodesic (with respect to the metric G and G and G is totally geodesic (with respect to the metric G and G and G and G and G and G is totally geodesic (with respect to the metric G and G	4 0 0 0 1 10-28-54 LL	
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Simple subalgebras of real Lie algebras. Trudy Mosk.mat. ob-va 4: 3-112 '55. (MLMA 8:7) (Groups, Theory of) (Spaces, Generalized)

KARPELEVICH, F. I. Cand Phys-Math Sci -- (diss) Subgroups of Lie's elementery groups, and homogeneous expenses of spaces Mos, 1956. 3 pp 20 cm. (Mos Order of Lenin and Crder of Labor Red Banner State U im M. V. Lomonosov. Mechan-Math Faculty), 100 copies

(KL, 7-57, 104)

KARpelevich, FI

SUBJECT

USSR/WATHEMATICS/Topology

CARD 1/1

PG - 990

AUTHOR TITLE

KARPELEVICH F.I.

PERIODICAL

On the fibre space of homogeneous spaces. Uspechi mat. Nauk 11, 3, 131-138 (1956)

reviewed 7/1957

The principal result of the present paper is the proof of the following theorem: The factor space C/H, where C and H are semi-simple group spaces can be fibred homogeneously. Here the fibres are Euclidean spaces and the basis is a space K/P, where K and P are maximal compact subgroups of G and H respectively. After some considerations and definitions on the fibre space of group spaces the author introduces the essential notion of the generalized Grassmann space. This is the totality {S} of all totally geodesic manifolds S of a symmetric Riemannian space of non-positive curvature, where the S are obtained one from another by the transformations of E. Now it is shown that every homogeneous space M with a semi-simple motion group G can be mapped homomorphically onto such a generalized Grassmann space (S) . The above mentioned theorem then follows in essential by showing at first that {S} can be fibred in the above manner.

KARPELEVICH, F.I.

AT THOR:

BEREZIU, P.A. and HARFELEVICH, F.I.

20-113-1-1

TITLE:

Zonal Spherical Functions and Laplace Operators on Home Symmetric Spaces (Zonal'nye afericheskiye funktsii i operatory Laplasa na nekotorykh simmetricheskich prostranstwakh). Doklady Akademii Naul/1958, Vol 118, Er 1, pp 9-12 (USCR)

PERIODICAL:

ABSTRACT:

Let $\mathfrak{M} = G/H$ be a homogeneous space with compact stationary subgroup H. As a Laplace operator on Mt according to Cell fand [Ref.1] a differential operator Δ is denoted which commutates with the translation operators. Let R be the manifold of the functions on M which are constant on the transitivity surfaces of the subgroup H. Each Laplace operator induces a certain differential operator on R; This is denoted as the radial part of Δ , in symbols $\check{\Delta}$. Let the space $\mathfrak{M}^+_{n,k}$ be the manifold of the k-dimensional subspaces of the n-dimensional complex space; let $\mathcal{W}_{n,k}^-$ be dual to $\mathcal{W}_{n,k}^+$ according to Cartan and finally let Mon,k be the space of all complex matrices with k-lines and n-k rows. In the present paper the author calculates the $extstyle \Delta$ of the Laplace operators $extstyle \Delta$ and the zonal spherical functions belonging to the irredu-

Card 1/2

Zonal Spherical Functions and Laplace Operators on Some Sym- 20-118-1-1/58 metric Spaces

cible representations in the spaces $\mathcal{M}_{n,k}^+$, $\mathcal{M}_{n,k}^-$ and $\mathcal{M}_{n,k}^0$. 1 Soviet and 1 foreign reference are quoted.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova

(Moscow State University imeni N.V.Lomonosov)

PRESENTED: June 24,1957 by P.S. Aleksandrov, Academician

SUBMITTED: June 21,1957

AVAILABLE: Library of Congress

Card 2/2

THUSE I BOOK EXPLOITATION Yescoylinyy matematichesky a "yead. 374, Roscow Trudy. t. A: Kratkoye soderhaniye sektelonnyd Incerennyth uchenyth (Transactions of the 37- Incerennyth uchenyth (Transactions of the 37- Resorts of Poreign Scientists Noscow, 12d-vo 247 p. 2,200 copies printed. Sponsoring Agency: Aradmays nauk SSSR. Matema Tedh. Mei. d. M. Manil'yov, B.V. Wedvedvy, M. Welvisch, M. Welvisch, M. Welling, M. W. Welvisch, M. Welling, M. Welvisch, M. Welling, M. Welling, M. Welvisch, M. Welling, M. Welvisch, M. Welling, M. Welvisch, M. Welvisch, M. Welling, M. Welvisch, M. Welling, M. Welvisch, W. Welvisch, M. Welvisch, W. W	THASE I BOOK EXPLOITATION SOV/2060		aniye sektelonnykh dokladov. Doklady hactions of the 3rd All-Union Mathemas. Oli. 4: Summary of Sectional Reports.	Matematicheskly institut.	A.A. Abramov, V.G. A.D. Mychkis, S.M. V. Prokhorov, K.A. G. Chetayev, G. Ye.	ians and physicists.	IV of the Transactions of the Third All-	title papers presented by Soviet scientists at the Con- that were not included in the first two volumns. The art contains the text of reports submitted to the editor, art contains the text of reports submitted to the editor, where scientists. In those cases when the non-Soviet sci- tin of submit a copy of his paper to the editor, int little per is citted and, if the paper was printed in a previous reference is and to the appropriate volume. The papers, differential and integral equations, function theory, all analysis, probability theory, topology, matheratical of sachanics and physics, computational mathematical of sachanics and physics, computational mathematics, and logic and the foundations of matheratics, and the). Semisimple subgroups of real 10	k). Solvable equations of prime 11	(Sverdlovak), On the theory of in-	Rings as sets with one operation 13 itity Interest Winterest	Integral equations of inverse	Vinograd, R.E. (Moscow) On the upper bound of characteristic infices in small porturbations	Solution of boundary value problems in certain functional apaces		
		ruznyy matematicheskiy	1146	Sponsoring Agency: Akademiya nauk 3558.	Tech. Ed.: G.N. Shevchanko; Ed Boltyanskiy, A.M. Vasil'yov, Mikol'skiy (kesp. Ed.), A.G. Rybnikov, P. L. Ul'yanov, V. Shilov, and A.I. Shirshov,		La the	book is divided into two main personed ference that were not included second part outsins the cart oby non-Soviet scientists. In exact of the paper is cited and, if it you have not solve and the control of the paper is cited and, if the both Soviet and non-Soviet control of the problems of sechanics and integrophems of sechanics and physical problems of sechanics and physical paper and the four hardows and problems of sechanics and physical paper sechanics.	Karpelevich, P.I. (Moscow).	Burbatov, V.A. (Sverdlovsk).		Sorkin, Du. I. (Moscow). Rings subjected to a single identity	Andrianow, -8:N. (Mazan'). Soundary value problems	Winograd, R.E. (Noscow) O Indices in small parturbat		 -	

16(1),16(2)

0579៤

AUTHORS:

Karpelevich, F.I., Tutubalin, V.N., and Shur, M.G. SOV/52-4-4-5/13

TITLE:

Limit Theorems for the Compositions of Distributions in the

Lobachevskiy Plane and Space

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 4, pp 432-436 (USSR)

ABSTRACT:

The authors investigate random variables in the Lobachevskiy space or plane L. The Borel measure $\mathcal{M}(\Gamma)$ is called symmetrical if for every Borel set \(\Gamma\) and every rotation h around the coordinate origin 0 it holds: $\mathcal{M}(h\Gamma) = \mathcal{M}(\Gamma)$. The composition

 $\mathcal{M}_1 * \mathcal{M}_2(\Gamma)$ is defined by $\mathcal{M}_1 * \mathcal{M}_2(\Gamma) = \int_{\Gamma} \mathcal{M}_1(\theta_x^{-1}\Gamma) \mathcal{M}_2(\mathrm{d}x)$, where θ_x

is a motion in L which transforms O into the point x Theorem 1: Let $arphi(\eta)$ be a bounded zonal spherical function

(compare $\lceil \text{Ref } 2 \rceil$). Then $\int \varphi(\eta) \mathcal{M}_1 * \mathcal{M}_2(\mathrm{d}x) = \int \varphi(\eta) \mathcal{M}_1(\mathrm{d}x)$. $-\int \varphi(\eta)\mu_2(dx)$, where $\eta=g(0,x)$ is the noneuclidean distance

between 0 and x and μ_1 , μ_2 are symmetrical measures.

Card 1/3

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05794

Limit Theorems for the Compositions of Distributions SOV/52-4-4-5/13 in the Lobachevskiy Plane and Space

Card 2/3

6

Limit Theorems for the Compositions of Distributions 05794 SOV/52-4-4-5/13 in the Lobachevskiy Plane and Space

Definition: Let the dispersion of μ be

$$D(M) = -g''(9)\Big|_{9=0} = -\frac{f''(0)}{f(0)}.$$
It holds
$$D(M_1*M_2) = D(N_1) + D(M_2).$$

$$D(M_1*M_2) = D(N_1) + D(M_2)$$
.

Theorem 4 treats the convergence of the sequence

The authors mention M.Ye.Gertsenshteyn, and V.B. Vasil'yev. There are 2 Soviet references.

SUBMITTED: December 25, 1958

Card 3/3

16(1) AUTHOR: Karpelevich, F.I. SOV/20-124-6-5/5 TITLE: Geodesics and Harmonic Functions on Symmetric Spaces (Geodezicheskiye linii i garmonicheskiye funktsii na simmetricheskikh prostranstvakh) PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1199-1202(USSR) Let G be a connected semisimple Lie group, K its maximum com-ABSTRACT: pact subgroup and Withe homogeneous space G/K. With respect to the invariant metric 70% is a symmetric Riemannian space with nonnegative curvature. Let the distance $g(y_1,y_2)$ between two geodesics y_1 and y_2 be defined in a natural way. The set of the geodesics, the distance of which from \(\chi_0 \) vanishes: $9(\chi,\chi_0)=0$ is denoted as the zero bundle with the geodesic χ_0 . Let the space $\mathcal R$ of these zero bundles be considered. Let $\mathcal R$ (Γ_0) be the set of the zero bundles Γ , for which $\mathcal R$ (Γ_0 , Γ) $<\infty$. Theorem: $\mathcal{P}(\Gamma)$ is a symmetric Riemannian space for each zero bundle Γ . Two geodesics χ_1, χ_2 are called conjugate, if there is a $g \in G$, so that $g\gamma_1 = \gamma_2$. Theorem: If $g(\gamma_1, \gamma_2) < \infty$, Card 1/3

Geodesics and Harmonic Functions on Symmetric Spaces SOV/20-124-6-5/55 then y_1 and y_2 are conjugate. Now there are connected a series of groups with y_3 Let $G(y_3) \subseteq G(y_3) = 0$ be the set of all $g \in G$, for which $y_3 \in G(y_3) = 0$. Each y_3 is a trajectory of the one-parameter subgroup $y_4 \in G(y_3) = 0$. Each $y_3 \in G(y_3) = 0$ the set of all elements of $y_4 \in G(y_3) = 0$ for different $y_4 \in G(y_3) = 0$ for $y_4 \in G(y_3) = 0$ for different $y_4 \in G(y_3) = 0$ for $y_4 \in G(y_4) = 0$ for $y_$

Geodesics and Harmonic Functions on Symmetric Spaces 30V/20-124-6-5/5 is denoted to be harmonic. Theorem: If Γ_1 and Γ_2 are two zero bundles and if $G_0(\Gamma_1)=G_0(\Gamma_2)$, then for each harmonic function it is $f(\Gamma_1)=f(\Gamma_2)$. Altogether 13 theorems of similar kind are given without proof. The suggestion for considering the space $\mathcal{P}(\Gamma)$ is due to I.I.Pyatetskiy-Shapiro. There are 6 references, 3 of which are Soviet, 2 American, and 1 French. ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta

ASSOCIATION: Moskovskiy institut inzhenerov zheleznodorozhnogo transporta imeni I.V. Stalina (Moscow Institute for Engineers of Railroad-Transport imeni I.V. Stalin

PRESENTED: November 12, 1958, by P.S.Aleksandrov, Academician

SUBMITTED: November 11, 1958

Card 3/3

KARPELEVICH, F.I.

Orispheric radial parts of Laplace operators on symmetric spaces.

Dokl. AN SSSR 143 no.5:1034-1037 Ap '62. (MIRA 15:4)

GINDIKIN, S.G.; KARPELEVICA, F.I.

Plancherel's measure for Riemannian symmetrical spaces of non-positive curvature. Dokl.AN SSSR 145 no.2:252-255 J1 162. (MIRA 15:7)

1. Predstavleno akademikom P.S.Aleksandrovym.
(Spaces, Generalized) (Groups, Theory of)

KARPELEVICH, Fridrikh Izrailevich; SADOVSKIY, Leonid Yefimovich; DONCHENKO, V.V., red.; PLAKSHE, L.Yu., tekhn. red.

[Elements of linear algebra and linear programming] Elementy lineinoi algebry i lineinogo programmirovaniia. Moskva, Fizmatgiz, 1963. 274 p. (MIRA 16:10) (Algebra, Linear) (Linear programming)

KARPELEVICH, F.I.

Non-negative eigenfunctions of the Beltrami-Laplace operator on symmetric spaces of non-positive curvature. Dokl. AN SSSR 151 no.6:1274-1276 Ag '63. (MIRA 16:10)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta. Predstavleno akademikom I.G.Petrovskim.

KAPPELEVICH, L. I.: "The connection between the torder spreathetic trucks and the preventebral nerves of the abdorinal region of man and animals." Ryazan' Medical Instrument Academician 1. P.

Taylev. Chair of Normal Anatomy. Hyazan', 185. (Dissertation for De ree of Candidate in Medical Sciences).

SO: Knizhnava letorial, No 23, 155.

MARRETEVICH, L. I.:

KARPELEVICH, T.D.; VORONIN, V.A.

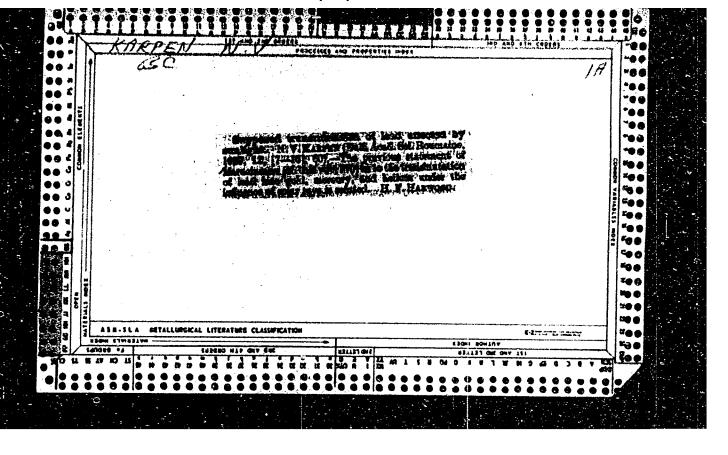
Hydraulic distributor for agricultural machines. Trakt i sel'khozmash. no.1:37-38 Ja '65. (MIRA 18:3)

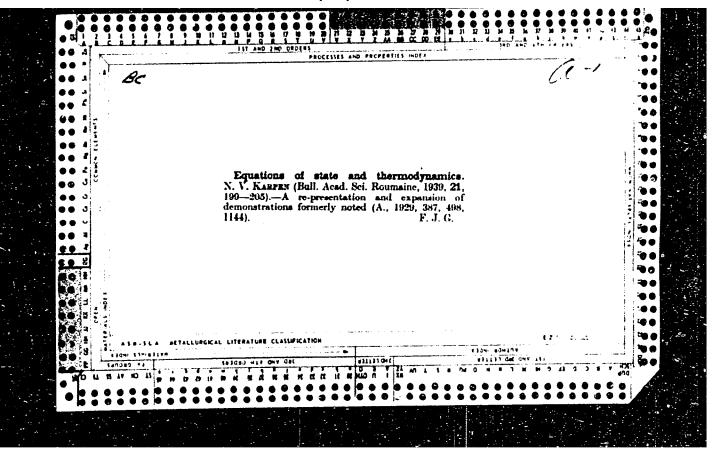
1. Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokho-zyaystvennogo mashinostroyoniya.

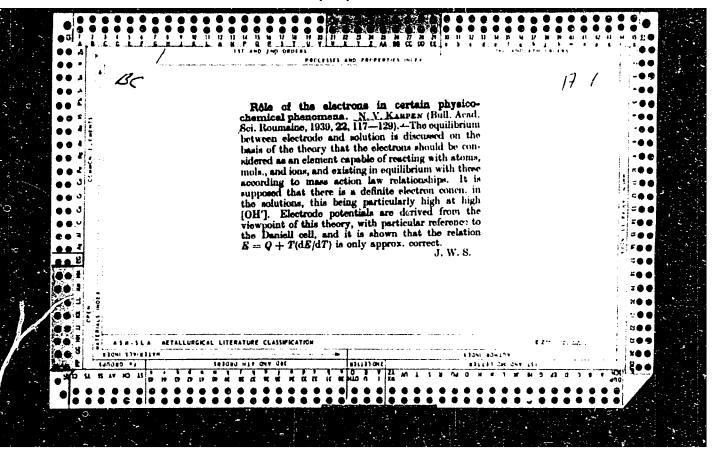
POTTER, Kh.1.; PANOVA. G.V.; KARPELYUK, A.A.

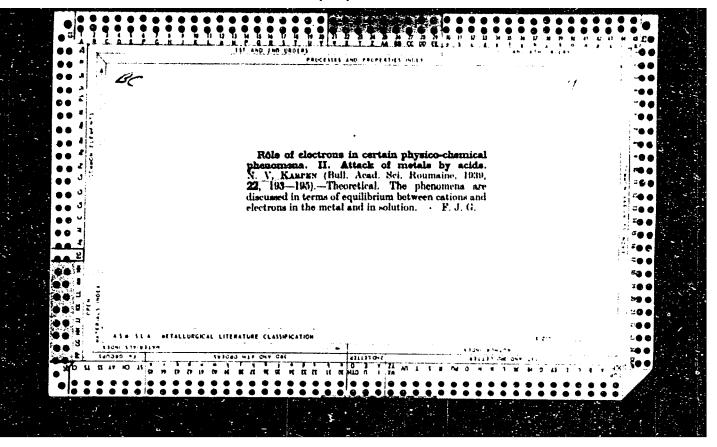
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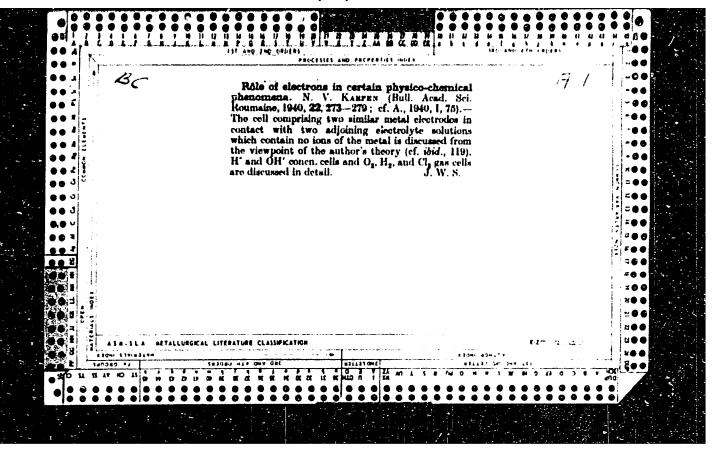
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The role of fluc mations in the appearance of life on earth.

p. 1079 (Academia Republicii Populare Romine. Comminicarile. Vol. 6, no. 9, Sept. 1956 Encuresti, Rumania)

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KARPEN, N. The mechanism of the osmotic pressure. p. 205. Vol. 8, no. 1, Jan./Mar. 1956 BULETT STILLIFIC. SCIE CS RUMALIA So: East European Accession, Vol. 6, No.5, May 1957

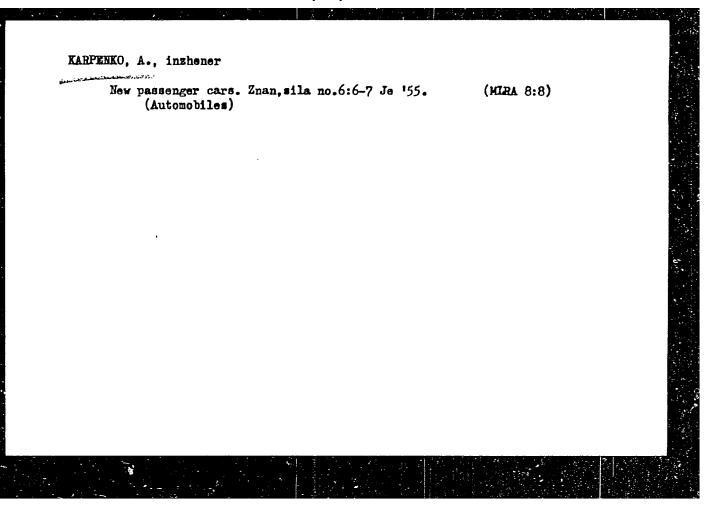
KARPENKO Country : USSR Catogory : Farm Animals. Q Cattle. Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96890 Author Filipson, Ye.; Karpenko, A.; Ganus, S. Institut. Titlo : Feeding Cattle Twice and Three Times Daily when Fattening with Pulp, Orig Pub. : Molochn. i myasn. zhivotnovodstvo, 1958, No 1, Abstract : When cattle was fattened with siloed pulp, it was distributed twice daily and this assured the complete consumption of the daily fodder ration and satisfactory daily weight gains which amounted to 1215 g whereas 825 g were planned for, as well as saved 23 percent of the time recessfully needed for the feeding the time necessarily needed for the feeding of the animals as compared to a food distribution taking place three times daily. Card: 1/1

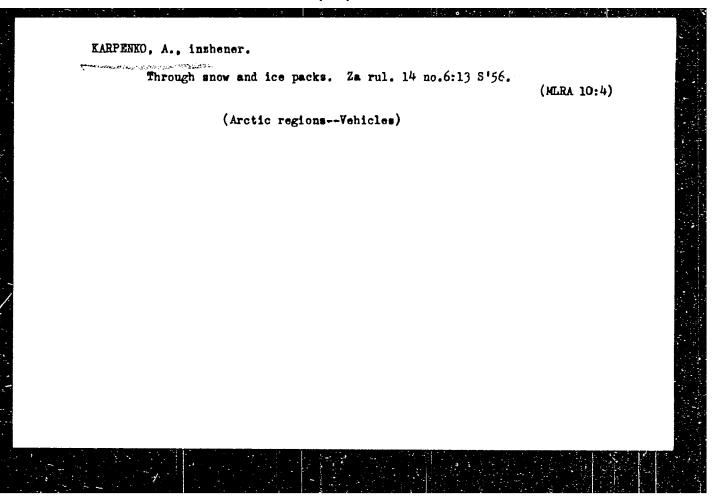
KARPENKO, A. and NIKOLAEV, V.

Vazhnye voprosy <u>a</u>lektrifikatsii zheleznykh dorog. / Inportant problems of railroad electrification /. (Zhel-dor. tranport, 1948, no. 3, p. 80-81).

DLC: HE7, Z5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Deaprtment, Washington, 1952, Unclassified.





KARPENKO, A., inzhener.

The UralZIS-355M truck. Za rul. 15 no.1:5-6 Ja '57. (MLRA 10:4)

1. Zamestitel' predsedatelya mezhduvedomstvennoy komissii po ispytaniyu avtomobiley UralZIS-355M

(Motortrucks)

KARPENKO, A., inzh.

Soviet-made passenger cars. Za rul. 16 no.11:20-21 N '58.

(Automobiles)

KARPENKO, A.A.

Chamotte crown with air cooling. Lit. proizv. no.8:31 Ag '63.
(MIRA 16:10)

SOLOV'YEVA, F.I. [Soloviova, F.I.]; KARPENKO, A.A. [Karpenko, A.O.]

Interrelationship of chalcocite with galena from hydrothermal veins in the Krivoy Rog Basin. Trudy Inst. geol. nauk AN URSR. Ser. petr., min. i geokhim. no.20:70-75 163.

(MIRA 16:8)

CIA-RDP86-00513R000720820007-5" APPROVED FOR RELEASE: 06/13/2000

BESITSKIY, R.M.; KARFENKO, A.A.

Determining the acid number and free alkali in the saponified oxidate by the method of potentiometric titration. Trudy NIISZMIMSa no.3% 86-88 162. (MIRA 16%12)

GOLIK, S.S., inzh. (Kiyev); KIZHAYEV, G.D., inzh. (Kiyev); KARPENKO, A.D., inzh. (Kiyev)

Yelta water tunnel. Vod. i san. tekh. no.9:8-12 S '64. (MIRA 17:11)

KARPENKO, A.F., kand. ekon. nauk; DOBRYAKOV, N.V., kand. sel'khoz. nauk; BOYKO, V.S., otv. za vypusk.

[Planning green fodder production; handbook on the methods of practical work for the couse "Production organization in socialist agricultural enterprises" given by the Department of Animal Husbandry] Planirovanie zelenogo konveiera; uchebno-metodicheskoe posobie dlia provedeniia prakticheskikh zaniatii po kursu "Organizatsiia proizvodstva v sotsialisticheskikh sel'skokhoziaistvennykh predpriiatiiakh" na zootekhnicheskom fakul'tete. Novosibirsk, Novosibirskii sel'khôz. in-t, 1961. 5 p. (MIRA 14:7) (Siberiia, Western-Pastures and meadows)

KARPKNKO, A.F., kand.ekon.nauk; DOBRYAKOV, N.V., kand.sel'skokhoz.nauk; BOYKO, V.S., otreza vypusk

[Planning replacements in a poultry flock and the output of poultry products; handbook on the methods of practical work for the course "Production organization in socialist agricultural enterprises" given by the Department of Animal Husbandry"] Plani-rovanie vosproizvodstva stada ptitsy i vykhoda produktsii ptitse-vodstva; uchebno-metodicheskoe posobie dlia provedeniia prakticheskikh zaniatii po kursu "Organizatsiia proizvodstva v sotsialisticheskikh sel'skokhoziaistvennykh predpriiatiiakh" na zeotekhnicheskom fakul*tete. Novosibirsk; Novosibirskii sel'khoz.in-1, 1961. 11 p. (MIRA 14:7)

(Poultry)

RARPENNO, Anatoliy Grigor'yevich; MOROZ, I.I., redaktor; ISLENT'IEVA,

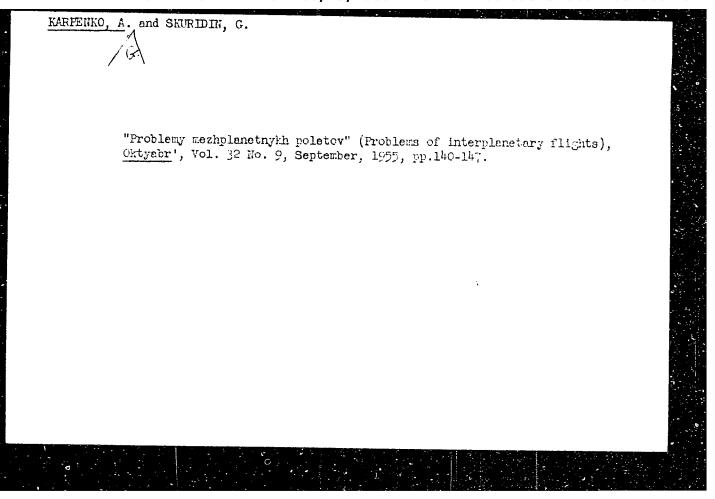
T.G., tekhnicheskiy redaktor.

[Problems of cosmic flight] Problemy kosmicheskikh poletov. Moskva,
Izd-vo "Znanie," 1955. 23 p.(Vsesciusnos obstichesto po rasprostraneniu politicheskikh i nauchnykh znanii. Sor. 4. no.25)

(Interplanetary voyages)

(MLRA 8:12)

"Sovremennye problemy kosmicheskikh poletov" (Contemporary problems of cosmic flights), Vestnik Akademii Nauk SSBR, Vol. 25, No. 9, September, 1955, pp. 19-30. For translation see Appendix XVII.
which Whi-17ter true - Liden 5% is there were



KARPENKO, A. G., and LIDOV, M. L.

"Concerning the Temperature Regime in Earth Satellites,"s paper presented at the Eight Annual Congress of the International Astronautical F.derution, 6-12 Oct 1957, Barcelona.

KARPENKO

. AUTHORS: Karpenko, A.G., and Lidov, M. L.

49-4-16/23

TITLE:

On the temperature regime in an artificial Earth

(O temperaturnom rezhime iskusstvennogo satellite.

sputnika zemli).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya,

1957, No.4, pp. 527-533 (USSR)

ABSTRACT: Papers published on the temperature regime in artificial satellites are devoted either to evaluating the extreme values of the temperature, which cannot be achieved in reality or to the influences of the individual factors,

> for instance, the molecular heat flow (Refs. 1-3), corpuscular radiation of the Sun (Ref.4), etc. Such an

approach does not permit a sufficiently accurate determination of the possible range of fluctuations of the temperature of the satellite during its movement The authors of this paper assume along an orbit. infinite thermal conductivity of the body of the satellite and also that the satellite has no definite orientation whatever in space and these assumptions enable disregarding the concrete design parameters of

the satellite. For certain circular orbits calculations

Card 1/3 were made and graphs were plotted of the minimum and

49-4-16/23

On the temperature regime in an artificial Earth satellite.

maximum temperature reached by the body as a function of the power of the internal sources of energy and its heat capacity for a characteristic area and a characteristic reflection coefficient of the surface. In the calculations the energy from internal sources, from direct solar radiation and also from the Earth (the thermal radiation of the Earth and the reflection of the Sun's radiation) were considered. The derived formula, Eq.(19), p.531, is utilised for determining the temperature for two types of orbits, one circular in a plane perpendicular to the line Earth-Sun (graph Fig. 5) and one with a circular orbit in a plane passing through the line Earth-Sun. In both cases it is assumed that the orbits are at distances of 200 and 100 km from the surface of the Earth. By giving a satellite a definite orientation the temperature conditions can be influenced appreciably; the finite heat conductivity of the body also brings about a change in the results. It can be seen from the graphs that, in presence of small internal sources of energy in the satellite, the temperature Card 2/3 inside the satellite will vary between 0 and 10°C.

49-4-16/23

3C 🗻

. On the temperature regime in an artificial Earth satellite.

There are 9 figures and 6 references, all of which are Slavic.

SUBMITTED: October 18, 1956.

ASSOCIATION: Ac.Sc. USSR Astronomy Council, Inter-Departmental Commission on Inter-Planetary Travel.

(Akademiya Nauk SSSR Mezhduvedomstvennaya Komissiya po Mezhplanetnym Soobshcheniyam pri Astronomicheskom

Sovete).

AVAILABLE: Library of Congress.

Card 3/3

AUTHORS: Karpenko, A.G., Belyayev, L.M., Vitovskiy, B.V.

and Dobrzhanskiy, G.F.

TITLE: Crystalliser for Growing Crystals by the Evaporation

Method

PERIODICAL: Kristallografiya, 1961, Vol. 6, No. 1, pp. 146 - 147

TEXT: In spite of numerous advantages of this method it has been relatively little used. Its main drawbacks are a decrease in the volume of the mother liquor during crystallisation. loss of solvent during evaporation (important in the case of poisonous or expensive solvents) and impossibility of obtaining a continuous process of crystallisation without having to fill the crystalliser with saturated solutions. The latter is particularly important in crystallising substances which are difficult to dissolve. The authors propose a design of crystalliser which enables continuous crystallisation by evaporation in a closed crystalliser without loss of the solvent, maintaining a constant level of the Card 1/8

Crystalliser for Growing

mother liquor. The crystalliser does not require any pumping systems or any other forcing devices for maintaining a constant level and the desired degree of saturation of the solution. Transfer of the substance to be crystallised from the solution zone into the space where crystallisation takes place and maintenance there of the required saturation are by means of natural circulation, including evaporation of the solvent, its condensation, return of the condensate into the zone of solution of the substance and movement of the solution into the zone of crystal growth. The crystalliser, Fig. 1, is mounted on an electric heater and contains all the apparatus for maintaining and controlling the temperature. It consists of three coaxial vessels, fitted one inside the other, in such a way that the first (external) and the second (middle) intercommunicate at the top whilst the second and third (inner vessels) intercommunicate from the bottom. The edges of the first and third vessels should be above the level of the mother liquor, whilst the edge of Card 2/8,

Crystalliser for Growing

the second is a few cm below the level of the mother liquor. The first vessel is intended for dissolving the crystallised substance and for receiving the condensate. It also serves as a settling vessel and a thermostat. The second vessel serves as a carrier of the solution and has a seal preventing the falling of germinations from the zone of dissolution into the crystalliser. The third (internal) vessel is the crystalliser. The communication between the lid of the crystalliser and the first cylinder is by means of a ground surface. In a crystalliser of this design, a "continuous" complicated cycle of mass transfer from one state into another takes place. The crystalliser is filled with a solution which is saturated at a given temperature. The degree of filling can be seen from Fig. 1. At the bottom, between the walls of the first and the second vessels, the excess material is fed in which is considerably greater than the weight of the crystal to be produced. The geometric dimensions of the vessels are so chosen as to obtain an evaporation surface in Card 3/8,

Crystalliser for Growing

the first and the second vessels, which is considerably smaller than the surface in the third vessel. During operation of the crystalliser condensation of the solvent will occur at the inner surface of the lid and the top part of the first vessel. The lid is made semispherical or conical so as to ensure that the condensate returns only into the first vessel where dissolution of the recrystallised substance takes place as a result of continuous inflow of solvent. Since the vessels intercommunicate, a constant hydrostatic level difference is maintained, which is governed solely by the difference in the density of the solution in the first and third vessels and in the system as a whole constant concentration flows will establishe themselves, as shown by arrows in Fig. 1. The solvent evaporated from the third vessel is replaced by a quantity of solution of equal mass from the first vessel, this way, there will be a continuous transfer of the orystallising substance from the solution zone into the Card 4/8/

Crystalliser for Growing

crystalliser, as a result of which a constant saturation is maintained in the crystalliser. The specific degree of saturation will become established at a given temperature which hardly changes at all with the growth of the crystal. Under otherwise equal conditions the degree of saturation and consequently the speed of growth of the crystal is controlled by changing the temperature of the solution. Furthermore, equipment can be designed which permits changing (increasing in the case of a positive temperature coefficient of the solubility) the evaporation surface of the first and the second vessels in accordance with a given programme. The temperature field of the crystalliser has a small gradient directed from the bottom upwards. The thermal effects of the reactions in the system are localised and can be easily taken into consideration. Mechanical mixing of the solution in the crystalliser is by means of a magnetically actuated mixer. The reliability of the described crystalliser was verified under laboratory conditions for a number of substances, Card 5/8

S/070/61/006/001/010/011 E073/E335

Crystalliser for Growing

including substances of low solubility. Figure 2 gives a photograph of the equipment. There are 2 figures and 1 Soviet reference.

ASSOCIATION: Institut kristallografii AN SSSR

(Institute of Crystallography of the AS USSR)

SUBMITTED: May 26, 1960

Card 6/8

BELYAYEV, I.M.; TITOVSKIY, B.V.; DOBRZHAMSKIY, G.F.; KARPENNO, A.G.

Modified crystallization tank. Kristallografiia 6 no.2:286-287
Mr-Ap '61. (NIRA 14:9)

1. Institut kristallografii AN SSSR. (Crystallization)

	KARPENKO,	A.I.	DECEASED	1961/I
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KARPENKO, A.I.

Protection of a frequency trebler from damages. Elek. i tepl. tiaga 4 no.10:28-29 0 '60. (MIRA 13:10)

1. Nachal'nik uchastka energosnabzheniya Stalinskoy dorogi.
(Railroads--Electric equipment)
(Frequency mulitpliers)

Universal statoscope for testing weight-piston manometers.

fzm.tekh. no.9:18-19 S '62. (MIRA 15:11)

(Manometer--Testing)

KARPENKO, A.I.

We need binding screws. Prom. energ. 18 no.3:61 Mr 163.

1. Energouchastok Pridneprovskoy zheleznoy dorogi. (Electric fuses)

Fractices in obtaining large crops. Zemisdelic 27 no.6:77-20 Je *05. (MEA 18:9) 1. Glavnyy surence Gozmbardvennage plemenroga roveda "Techin" Veremethaker objecti.

Television image without scanning. Cz spoje 6 no.12:15 D '61.

ZOTOV, V.P.; SILUYANOV, V.G.; GUGINA, Ye.F.; AUERMAN, L.Ya.; ALEKHINA, M.S.;

EZZUBOV, A.D.; BODROV, V.A.; BUDNYY, A.V.; BURTSEV, Ye.L.;

VAYNSHTEYN, V.O.; GAVRILOV, A.N.; GORBATOV, V.M.; GRITSENKO, N.N.;

DOLGUSHEVA, L.I.; YEDYGENOV, K.Ye.; ZHURAVLEVA. S.S.; ZACHESKIN.

YA.A.; IVKIN, A.P.; IZOTOV, A.K.; IL'INSKIY, N.A.; IRINARKHOVA,

A.M.; KARPENKO, A.K.; LYSOGOR, P.M.; LUPISH, A.T.; OLEYNIKOV, V.V.;

ORANZHEREYEVA, V.R.; PETKOV, N.A.; PYATIBRATOV, M.A.; ROMANOV,

A.N.; RAUBE, P.V.; RYZHENKO, L.P.; SENYKIN, A.A.; SHEFER, A.P.

G.IA.IVANOV; Obituary. NTO 4 no.10:39 0 '62. (MIRA 15:9)

(Ivanov, Georgii IAkovlevich, 1897-1962)

38159. KARPENKO, A. N.

Protsess pitaniya i pabota katushechnogo apparata pri nizhnem wyseve. Trudy Vsesoyuz. Nauch.-issled. in-ta mechanizatsii sel. khoz-va, t. XII, 1949, s. 47-78

1. KARPENKO, ALI	ű.

- 2. USSR (600)
- L. Grasses
- Mechanization of summer and fall cultivation grass grown for seed. Dost. sel'knoz no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953, Unclassified.

KARPENKO, A. N.

Kvadratno-gnezdovoi sposob poseva i posadki (Seeding and planting in checkrowed clusters) Moskva, 1953. 32 p. (Glav. upr. s. -kh. propagandy i nauch. -issled. uchrezhdenii M-va sel'skogo khoziaistva i zagotovok SSSR)

SO: Monthly List of Russian Accessions, Vol. 7, No. 6, Sep. 1954

KARPENKO, Aleksandr Nikolayevich, akademik, professor; POLEVITSKIY, Konstantin Aleksandrovich, professor; PESTRYAKOVA, S.V., redaktor; BALLOD, A.I., tekhnicheskiy redaktor

[Agricultural machines and implements] Sel'skokhoziaistvennye mashiny i orudiia. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 527 p. (MIRA 19:3)

Moskovskaya Ordena Lenina sel'skokhozyaystvennaya skademiya im.
 K.A.Timiryazeva (for Karpenko).
 Leningradskiy sel'skokhozyaystvennyy institut (for Polevitskiy)
 (Agricultural machinery)

KARPENKO Alakaendr-Wirolewayich, akademik; KATSNEL'SON, S.M., red.;

GUBIN, M.I., tekhn.red.

[New developments in the mechanization of tillage] Novoe v
mekhanizataii polevodstva. Monkva, Izd-vo "Znante." 1957. 31 p.
(Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i
nauchnykh znanii. Ser.5, no.28)

(Agricultural machinery)

(Agricultural machinery)

KARPENKO, A.N., akademik.

Machinery and mechanization of socialist agriculture on the 40th anniversary of the great October. Zemleledie 5 no.11:17-30 N '57.

(Farm machanization) (Agricultural Machinery)(MLRA 10:11)

ALEKHIN, N.V.; KARPENKO, A.N., red.

[Mechanized field-crop cultivation] Mekhanizatsiia polevodstva. 2 perer. izd. Moskva, Gos.izd-vo selkhoz lit-ry, 1958. 532 p. (Agricultural machinery) (MIRA 12:4)

KARPEWRO, A.N.

AUTHOR:

Karpenko, A.N., Academician

25~58-4-5/41

TITLE:

Mechanization Becomes Complete (Mekhanizatsiya stanovitsya

kompleksnoy)

PERIODICAL: Nauka i Zhizn', 1958 25 Nr 4, pp 12-16 (USSR)

ABSTRACT:

The following new agricultural machines are now being designed or already in use in the Soviet Union: improved "MTZ-2" wheel tractors; diesel tractors; small-track plowing tractors; the "DT-100" and "DT-140" chain-tread tractors with trailers; special tractor type "DT-55", for work on moors and turf peats; chain-tread tractors capable of working on 25° slopes without turns, by using two similar machines suspended on the front and rear; chassis-tractors, etc. equipped with hydraulic devices to carry agricultural implements. The speed of the new tractors will be over 10 km/hour. Plowing is now being carried out by one-man operated machines with hydraulic devices, reverse-plows for smooth tilling, and three-stage plows for tilling in layers. Seeders, which simultaneously sow and fertilize, as well as special corn sowing machines, are being utilized. VIM and VISKhOM have designed improved selfpropelled machines and trailers for hay baling and stacking, as well as a bale collector with a capacity of 3-4 tons. In-

Card 1/2

Machanization Becomes Complete

25-58-4-5/41

formation includes various types of combine such as the "SK-2.6" combine for sile harvesting; the "SK-3" self-propelled combine equipped with a thresher, reaper binder, hydraulic lifting and dropping devices, and a speed regulator; a series of uni-flow trailer-combines for harvesting grain crops on small fields; combines for the pressing and cutting of straw; a special corn harvester; combines for the cleaning of sugar beets and the removal of the leaves; and the "SKP-2" double-row combine. There are 5 figures.

ASSOCIATION: VASKHNIL

AVAILABLE:

Library of Congress

Card 2/2

1. Agriculture-Machines-Design

PRINCE I EMERICA CONTRACTOR SOVAISS Tender training a scaleta (Labor and Engineering in the (Secies: Majoraya biblioteca rabothego) 10,000 coptes printed. A. A. Colitomacova. A. A. Colitomacova. A. A. Colitomacova. Tenders. This book is a relateration of 19 article dealing with the archivements and progress of the Secondary Plan in branches of the Soviet consurerision, another middling, promises, actualization of 19 article dealing within the archivements and progress of the Secondary and in Science. Attention is given to bowe plant construction deconstation, another progress as a state of the consultation of the	B I BOOK EXPLOITATION SOVA158 latter (Labor and Engineering in the Mission Profitant, 1350 35 p. the Mission Profitant, 1350 35 p. the Mission Profitant, 1350 35 p. the Mission Profitant, 1360 35 p. the Mission Profitant of Sciences dealing the And Dongress of the Seven-Feature, and Desgriculture, and Desgriculture, and chemistry production, production of computer of Agriculture, and chemistry fill Research Institute of Mission, profit of the Computer of Mission, production of computer of Mission, production of Computer of Mission, production of Computer of Mission of Missi		K	AI	s P	FΝ	Ko,	A. r	V .	* * * * * * * * * * * * * * * * * * *						 			Carry park	***************************************		
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KARPENKO, Aleksandr Nikolayevich, akademik; POLEVITSKIY, Konstantin Aleksandrovich, prof.; LETNKV, B.Ya., red.; PROKOF'YEVA, L.N., tekhn.red.

[Agricultural machinery and tools] Sel'skokhoziaistvennye mashiny i orudiia. Izd.4., perer. i dop. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1960. 469 p. (MIRA 14:1)

1. Vsesoyuznaya akademiya seliskokhozyaystvennykh nauk imeni V.I. Lenina (for Karpenko).

(Agricultural machinery)

KARPENKO, A.N., akademik

Basic problems of the mechanization of the placement of fertilizers. Izv. TSKHA no.1:163-171 '64. (MIRA 17:4)

l. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni Lenina: kafedra mekhanizatsii sel'skokhozyaystvennogo proizvodstva Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni Timiryazeva.

KARPENKO, Aleksandr Nikolayevich, akademik, doktor tekhn. nauk, prof.; ZELENEV, Aleksandr Alekseyevich, kand. tekhn. nauk, dots.; SOLODENIKOVA, G.A., red.

[Agricultural machinery] Sel'skokhoziaistvennye mashiny. Moskva, Kolos, 1965. 398 p. (MIRA 18:6)

1. Vsesoyuznaya akademiya seliskokhozyaystvennykh nauk imeni V.I.Lenina(for Karpenko). 2. Moskovskaya seliskokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Zelenev, Karpenko).

SHNYUKOV, Ye.F. [Shniukov, IE.F.]; NEROBA, A.Ya.; KARPENKO, A.O.

Pyrite and barite from carbonate ores of the Mariyevka Pit of the 40th Anniversary of the October Barita Markine (Nikopol' deposit).

Mat.z min.Ukr. no.2:92-98 '61. (MIRA 15:8)

(Nikopol' region--Pyrites) (Nikopol' region--Barite)

KARPENKO, A.P., red.

[Outline of the course "Basic power sources for industry" for four-year Party schools] Programma kursa "Energeticheskaia baza promyshlennosti" dlia chetyrekhgodichnykh partiinykh shkol.

Moskva, 1956. 11 p. (MIRA 13:9)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

(Electric power--Study and teaching)

KARPENKO, Andrey Porfir'yevich, kandidat ekonomicheskikh nauk; ZAYTSEV, V.P., redaktor; FURMAN, G.V., tekhnicheskiy redaktor

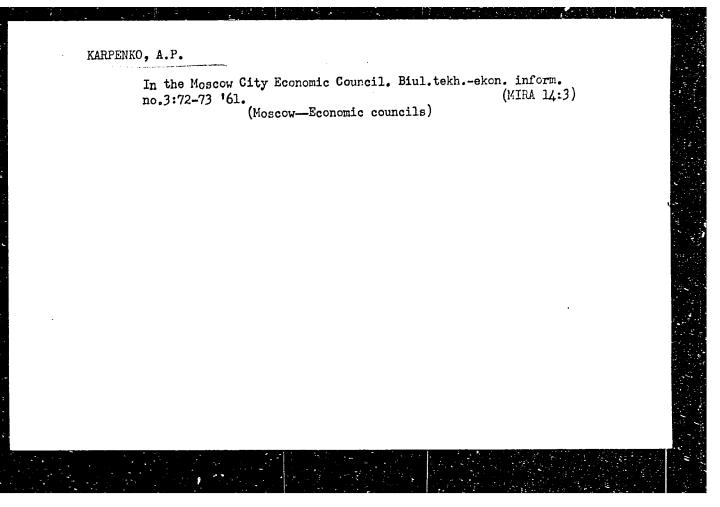
[Technologically sound norms and their role in increasing labor productivity] Tekhnicheski obosnovannye normy i ikh rol' v povyshenii proizvoditel'nosti truda. Moskva, Izd-vo "Znanie," 1956. 47 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser. 8, Ekonomika promyshlennosti. Vyp. 1, no.12) (Production standards) (MLRA 9:12)

RUMTANTSEY, A.F.; YEFIMOV, A.N.; TEPLOY, G.V.; LOKSHIN, E.Yu.; KARPENKO,
A.P.; GRIGOR'YEY, A.Ye.; FILIPPOV, V.F.; PERESLEGIN, V.I.. Prinimal uchastiyo VOLODARSKIY, L.M.; TYAGAY, Ye., red.; POPOVA, T.,
tekhn.red.

[Economy of socialist industrial enterprises; textbook] Ekonomika sotsialisticheskikh promyshlennykh predpriiatii; uchebnik. Moskva, Gos.izd-vo polit.lit-ry, 1959. 591 p. (MIRA 13:3)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola. 2. Zamestitel' nachal'nika TSentral'nogo statisticheskogo upravleniya SSSR (for Volodarskiy).

(Industrial management)



KARPENKO, Andrey Porfir yevich

[Plan of the economic development of the U.S.S.R. for 1959-1965; new stage in the building of communism]Plan razvitiia narodnogo khoziaistva SSSR na 1959-1965 gody - novyi etap v stroitel'stve kommunizma. Moskva, Ob-vo po rasprostraneniiu polit. i nauchn. znanii RSFSR, 1959. 35 p. (MIRA 15:10)

(Russia---Economic policy)

RUMYANTSEV, A.F.; YEFIMOV, A.N.; TEPLOV, G.V.; LOKEHIN, E.Yu.;

KARPENKO, A.P.; GRIGOR'YEV, A.Ye.; FILIPPOV, V.F.;

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tekhn. red.

[Economics of industrial enterprises; textbook] Ekonomika promyshlonnykh prodpriiatii; uchobnik. 2., porer. i dop. izd.
Moskva, Gospolitizdat, 1962. 574 p. (MIRA 15:9)

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